according to Regulation (EC) No 1907/2006

Clean Screen_Winter

Revision date: 21.01.2019

Page 1 of 9

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Clean Screen_Winter

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company name:	Vierol AG	
Street:	Karlstrasse 19	
Place:	D-26123 Oldenburg	
Telephone:	+49 (0) 441 – 210 20 – 0	Telefax:+49 (0) 441 – 210 20 –111
e-mail:	info@vierol.de	
Internet:	www.vierol.de	
Responsible Department:	Giftinformationszentrum Nord (Göttingen) +49 (0)551/19240	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008 Hazard categories: Flammable liquid: Flam. Liq. 3 Hazard Statements: Flammable liquid and vapour.

2.2. Label elements

Regulation (EC) No. 1272/2008

Signal word:

Pictograms:



Warning

Hazard statements

Flammable liquid and vapour.

Precautionary statements

Dispose of contents/container to industrial incineration plant.

Store in a well-ventilated place. Keep cool.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

Wear protective gloves/protective clothing/eye protection/face protection.

Take action to prevent static discharges.

Use non-sparking tools.

Use explosion-proof electrical/ventilating/lighting equipment.

Ground and bond container and receiving equipment.

Keep container tightly closed.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of reach of children.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

according to Regulation (EC) No 1907/2006

Clean Screen_Winter

Revision date: 21.01.2019

Page 2 of 9

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according	to Regulation (EC) No. 1272/200	3 [CLP]	
64-17-5	ethanol, ethyl alcohol			60-<65 %
	200-578-6	603-002-00-5		
	Flam. Liq. 2; H225			
107-21-1	ethanediol, ethylene gly	col		10-<15 %
	203-473-3	603-027-00-1		
	Acute Tox. 4; H302			
68585-34-2	Alkylethersulfat, Natriun	nsalz 28%		<0,1 %
	Skin Irrit. 2, Eye Irrit. 2;	H315 H319		

Full text of H and EUH statements: see section 16.

Labelling for contents according to Regulation (EC) No 648/2004

< 5 % anionic surfactants.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Self-protection of the first aider Remove casualty to fresh air and keep warm and at rest. Change contaminated, saturated clothing.

After inhalation

Provide fresh air. If unconscious place in recovery position and seek medical advice.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After ingestion

Rinse mouth immediately and drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet0 Carbon dioxide (CO2)0 Foam0 Extinguishing powder. In case of major fire and large quantities: Water spray jet

Unsuitable extinguishing media

Full water jet





according to Regulation (EC) No 1907/2006

Clean Screen_Winter

Revision date: 21.01.2019

Page 3 of 9

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air. In case of fire may be liberated: Carbon dioxide (CO2). Sulphur dioxide (SO2) Nitrogen oxides (NOx)

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Protective equipment Remove persons to safety. Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed. Store in a cool dry place. Keep away from heat. Protect from sunlight. Provide adequate ventilation as well as local exhaustion at critical locations.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on storage compatibility

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

Further information on storage conditions

Store in a cool dry place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

according to Regulation (EC) No 1907/2006



Clean Screen_Winter

Revision date: 21.01.2019

Page 4 of 9

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

8.2. Exposure controls



Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Change contaminated, saturated clothing. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. When using do not eat, drink or smoke.

Eye/face protection

Wear eye protection/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. DIN EN 374 Suitable gloves type: NBR (Nitrile rubber)

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Colour:	Liquid blue	
Odour:	characteristic	
pH-Value (at 20 °C):		8
Changes in the physical state		
Melting point:		-63,5 °C
Initial boiling point and boiling range:		78 °C
Flash point:		23 °C
Flammability		
Solid:		not applicable
Gas:		not applicable
Free Lands and a surface		

Explosive properties

The product is not: Explosive In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Lower explosion limits:

according to Regulation (EC) No 1907/2006



Clean Screen_Winter

Revision date: 21.01.2019		Page 5 of 9
Upper explosion limits:	15,3 vol. %	
Ignition temperature:	410 °C	
Auto-ignition temperature Solid: Gas:	not applicable not applicable	
Decomposition temperature:	not determined	
Oxidizing properties No self-ignition up to the melting point.		
Vapour pressure: (at 20 °C)	59 hPa	
Density (at 20 °C):	0,915 g/cm ³	
Water solubility:	easily soluble	
Solubility in other solvents not determined		
Partition coefficient:	not determined	
Vapour density:	not determined	
Evaporation rate:	not determined	
9.2. Other information		
Solid content:	not determined	
SECTION 10: Stability and reactivity		

10.1. Reactivity

Flammable. No information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon monoxide

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

according to Regulation (EC) No 1907/2006

Clean Screen_Winter

VAICO engine & transmission parts by VIEROL

Page 6 of 9

Revision date: 21.01.2019

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
64-17-5	ethanol, ethyl alcohol	ethanol, ethyl alcohol				
	oral	LD50 mg/kg	6200	Rat	IUCLID	
	inhalative (4 h) vapour	LC50	95,6 mg/l	Rat	RTECS	
107-21-1	ethanediol, ethylene glycol					
	oral	ATE	500 mg/kg			
	dermal	LD50 mg/kg	10600	Rabbit	GESTIS	

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d] Species	Source	Method
64-17-5	ethanol, ethyl alcohol				
	Acute crustacea toxicity	EC50 9268 - 14221 mg/l	48 h Daphnia magna	IUCLID	

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol, ethyl alcohol	-0,31
107-21-1	ethanediol, ethylene glycol	-1,36

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

according to Regulation (EC) No 1907/2006



Page 7 of 9

Clean Screen_Winter

Revision date: 21.01.2019

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Waste disposal number of used product

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors; hazardous waste

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 1987
14.2. UN proper shipping name:	ALCOHOLS, N.O.S.
<u>14.3. Transport hazard class(es):</u>	3
14.4. Packing group:	III
Hazard label:	3
Classification code:	F1
Special Provisions:	274 601
Limited quantity:	5 L F1
Excepted quantity: Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	_/_
14.1. UN number:	UN 1987
14.2. UN proper shipping name:	ALCOHOLS, N.O.S.
14.2. UN proper shipping name: 14.3. Transport hazard class(es):	3
14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group:	3 III
14.2. UN proper shipping name: 14.3. Transport hazard class(es):	3
14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group:	3 III
14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group:	3 III
14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label:	3 III 3
14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Classification code:	3 III 3 F1
14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Classification code:Special Provisions:	3 III 3 F1 274 601
14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Classification code:Special Provisions:Limited quantity:	3 III 3 F1 274 601 5 L
14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Classification code:Special Provisions:Limited quantity:Excepted quantity:	3 III 3 F1 274 601 5 L
14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Classification code: Special Provisions: Limited quantity: Excepted quantity: Marine transport (IMDG)	3 III 3 F1 274 601 5 L E1

according to Regulation (EC) No 1907/2006



Clean Screen Winter Revision date: 21.01.2019 Page 8 of 9 14.3. Transport hazard class(es): 3 14.4. Packing group: ш Hazard label: 3 **Special Provisions:** 223.274 Limited quantity: 5 L Excepted quantity: E1 EmS: F-E, S-D Air transport (ICAO-TI/IATA-DGR) 14.1. UN number: UN 1987 14.2. UN proper shipping name: ALCOHOLS, N.O.S. 14.3. Transport hazard class(es): 3 14.4. Packing group: Ш Hazard label: 3 A3 A180 Special Provisions: Limited quantity Passenger: 10 L Passenger LQ: Y344 Excepted quantity: E1 IATA-packing instructions - Passenger: 355 IATA-max. quantity - Passenger: 60 L IATA-packing instructions - Cargo: 366 IATA-max. quantity - Cargo: 220 L 14.6. Special precautions for user Warning: Combustible liquid. 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code not applicable **SECTION 15: Regulatory information** 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information 64,99 % (594,659 g/l) 2010/75/EU (VOC): 2004/42/EC (VOC): 79,98 % (731,817 g/l) Additional information Regulation (EC) No. 648/2004 (Detergents regulation). National regulatory information Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Water contaminating class (D): 1 - slightly water contaminating 15.2. Chemical safety assessment Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information



Page 9 of 9

according to Regulation (EC) No 1907/2006

Clean Screen_Winter

Revision date: 21.01.2019

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data

Relevant H and EUH statements (number and full text)

Highly flammable liquid and vapour. Flammable liquid and vapour. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singulary responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)